



# Anti-ARSG monoclonal antibody (DCABH-10622)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Antigen Description** Sulfatases, such as ARSG, hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules. This gene, a novel arylsulfatase, has activity toward pseudosubstrates including p-nitrocatechol sulfate and 4-methylumbelliferyl sulfate. Activity is competitively inhibited by phosphate. The unprocessed protein is active as a 63-kDa monomer and demonstrates an acidic pH optimum as typically seen for lysosomal sulfatases. The protein accumulates within lysosomes and is also a glycoprotein that binds specifically to mannose 6-phosphate receptors.

<b>Immunogen</b>	A synthetic peptide of human ARSG is used for rabbit immunization.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Protein A
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot (Transfected lysate); ELISA
<b>Size</b>	1 ea
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ARSG arylsulfatase G [ Homo sapiens ]</a>
<b>Official Symbol</b>	ARSG
<b>Synonyms</b>	ARSG; arylsulfatase G; KIAA1001; ASG;

<b>Entrez Gene ID</b>	<a href="#">22901</a>
<b>Protein Refseq</b>	<a href="#">NP_055775</a>
<b>UniProt ID</b>	<a href="#">A0A024R8K1</a>
<b>Chromosome Location</b>	17q24
<b>Pathway</b>	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem.
<b>Function</b>	arylsulfatase activity; NOT arylsulfatase activity; arylsulfatase activity; hydrolase activity; metal ion binding;